Creation of .svg Images

General
Download Inkscape 0.91 for windows (or later version)
Download Inkscape 0.91 for Mac (or later version)
How to use Markdown &HTML constructors

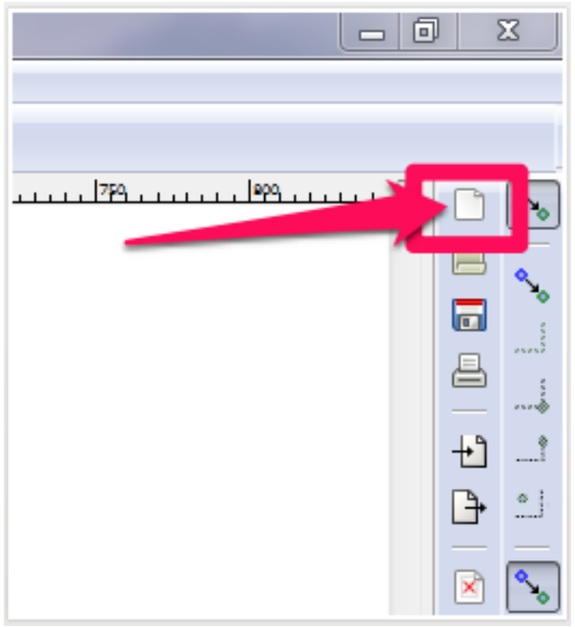
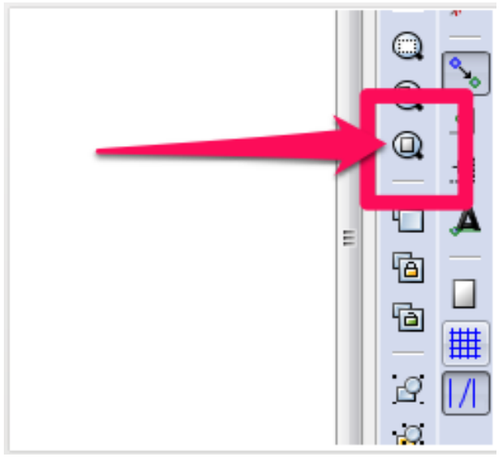
Requirements	
Create Image	Step by step guidelines on how to create a .svg image with Inkscape
Image Dimensions	Outlines the required image dimensions required in any OMA Spec document
Icon Selection	Orientation of the icons and their functionality
HTML requirements	Constructors that MUST be referenced using HTML
Do's and Don'ts	Specifies the critical points that MUST be adhered to in order to display an image within an OMA Specj correctly
FAQ Problem Solutions	.svg figure text overlaps

Additional tasks
Creation of a PDF file from HTML for Publication
Identify differences between two TS document versions

CREATE IMAGE

Task	Steps	Screen Shot	Comments

origin: SVG_Guidelines2.docx

1.Create new document	Click new document with default template		a. The image diagram should be created within the square border.
2.Set Document Properties	Click File Select Document Properties Click + 'Resize page to content.....' Set Width 128 Height 166		This will reset the image size that will be displayed in the document.
3.Zoom to fit the page in Window	Click icon to increase document size to create diagram		Image page will increase

origin: SVG_Guidelines2.docx

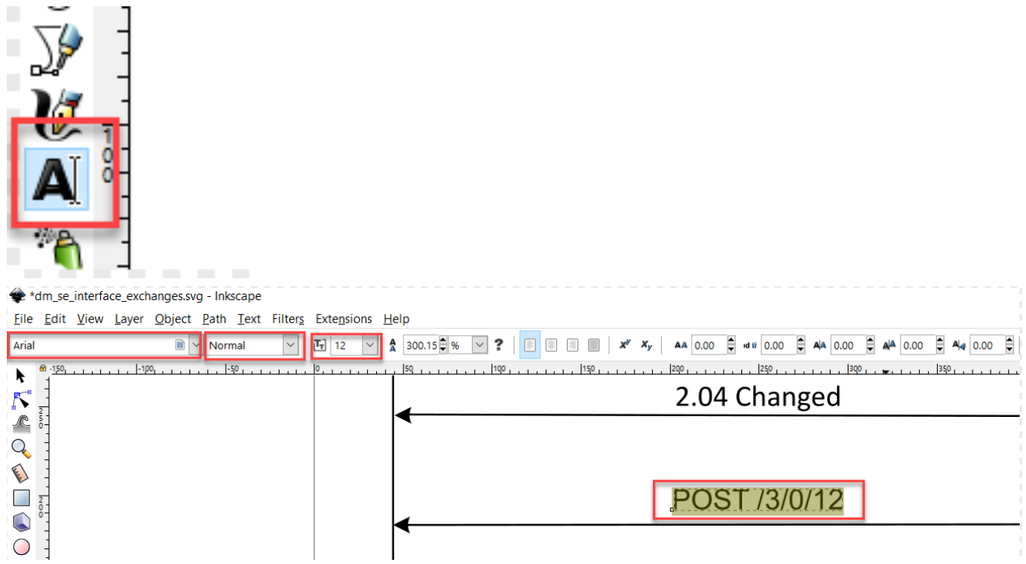
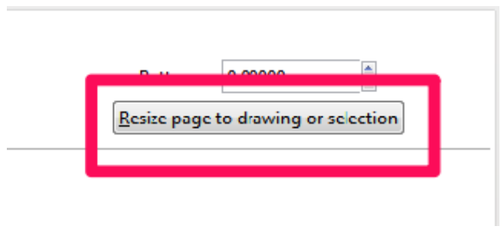
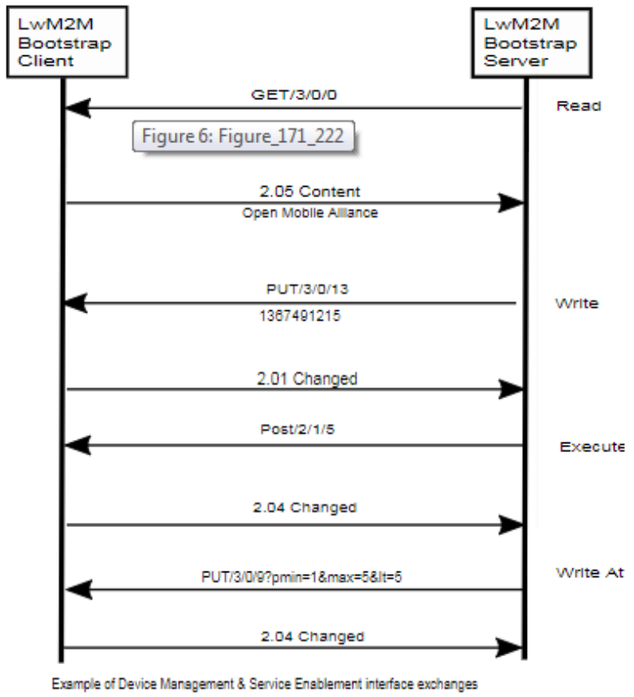
4. Create Image	See Image Dimensions to view correct image sizes.		Note, each image varies so dimension size must correspond to the listed figures. If the image is not listed and you require assistance please contact helpdesk@omaorg.org
5. Adding text to Image	Click 'A' icon on the side of the menu bar which will Create and edit text objects Double click on the image where you want the text box to be located. The option to select the font and size will appear Font family- Ariel Font Style - Normal Font Size - 12		
6.Once Image has been completed	Click File Select Document Properties Click 'Resize page or drawing or selection'.		This will remove any excess space that surrounds the diagram
7.Save Image	Click File Ensure the file name relates to the title of the image being uploaded to GitHub		

IMAGE DIMENSIONS

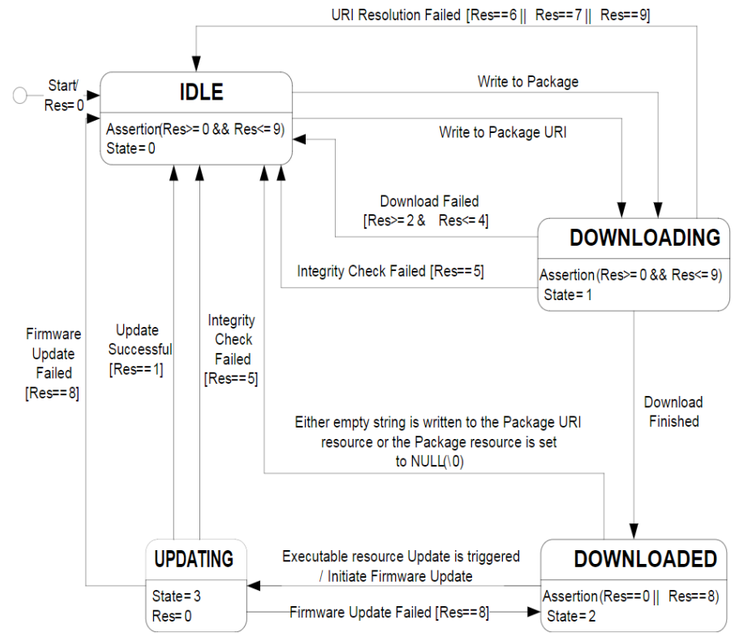
Image snapshot Type	Image dimensions		Image snapshot Type	Image dimensions

origin: SVG_Guidelines2.docx

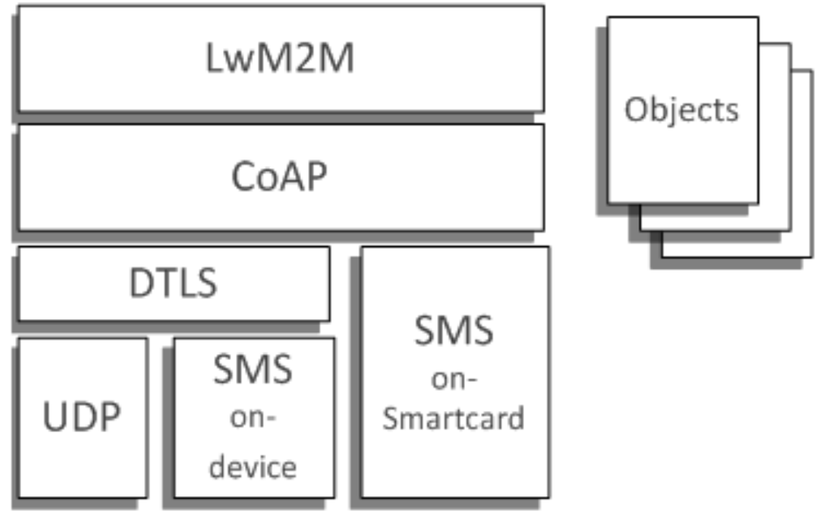


Example of Device Management & Service Enablement interface exchanges

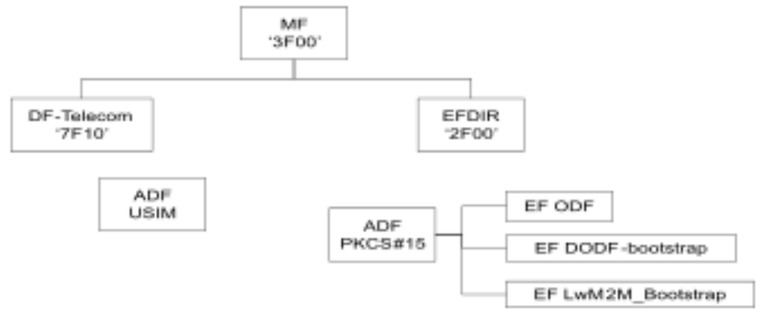
Width 82
Height 114



Width 250
Height 210

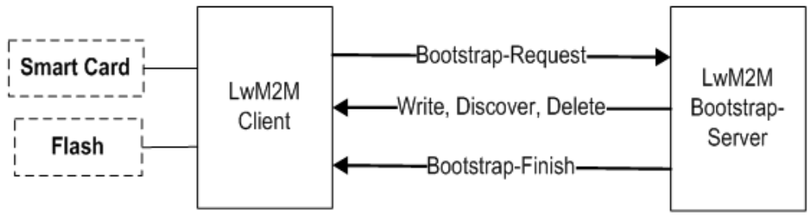


Width 91
Height 43

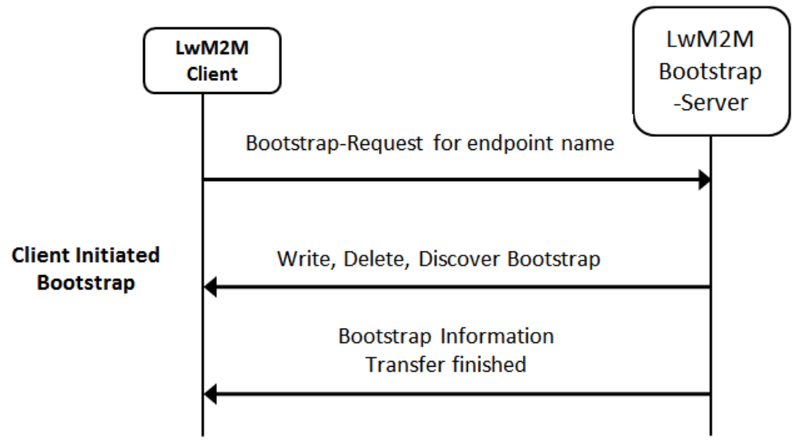


Width 115
Height 47

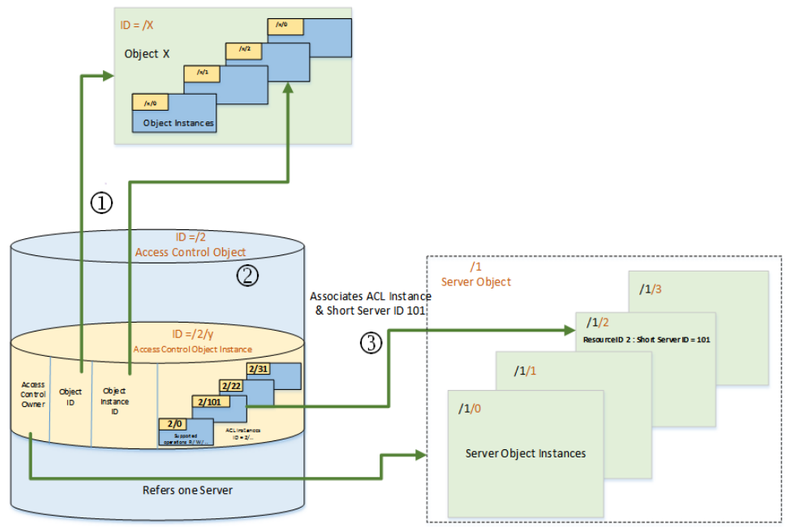
origin: SVG_Guidelines2.docx



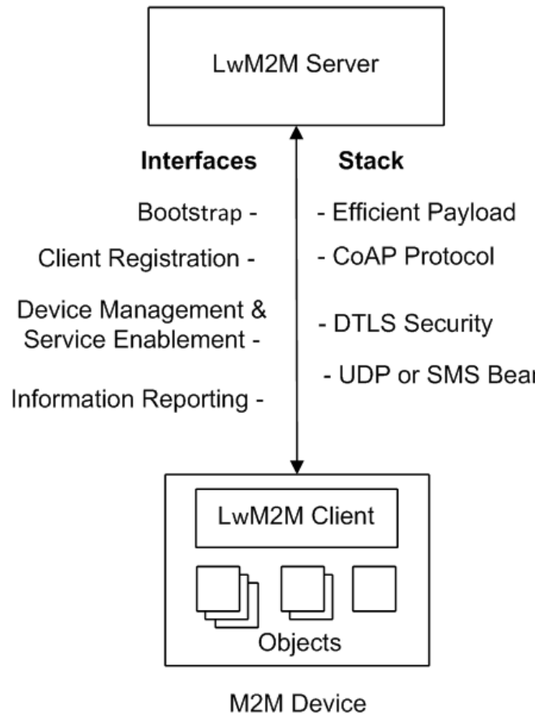
Width 140
Height 45



Width 82
Height 75

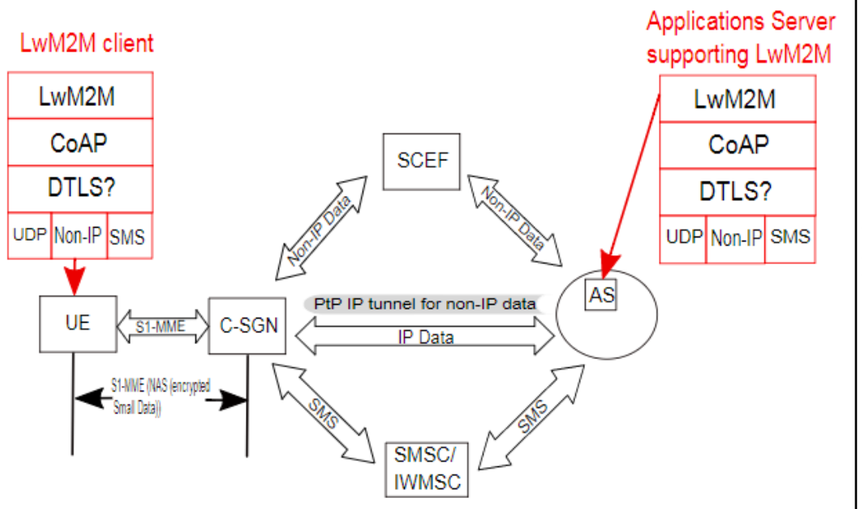


Width 191
Height 169

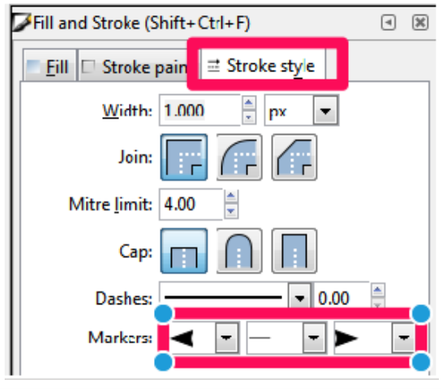


Width 64
Height 101

origin: SVG_Guidelines2.docx

	Width 144 Height 85		

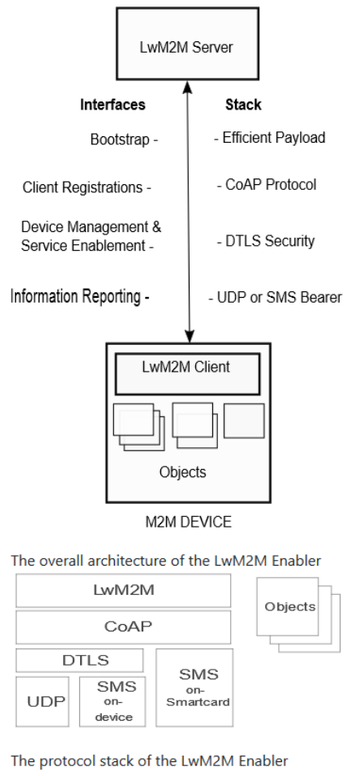
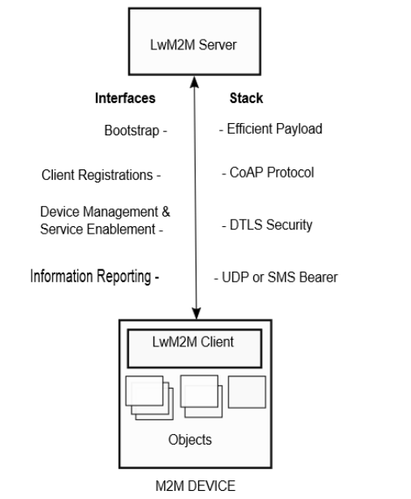
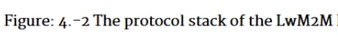
ICON SELECTION

ICON Selection	Screenshot	Icon Selection	Screenshot
Resize shapes/Textbox		Resize shapes/Textbox	
Add a line between shapes		Select all objects	
Add text box		Undo the last action	
Add direction arrow to line Right-click online Select 'Fill and Stroke' from the drop-down menu (New window appears) Click 'Stroke style' tab and in markers select the required arrow direction			

HTML Requirements

origin: SVG_Guidelines2.docx

Document Constructors	Markdown	Markdown Look & Feel	HTML Look & Feel

Figures	MUST be referenced using HTML
	
	Images need to be uploaded to the "images" folder.
	In a GitHub repository, each technical document should have its own "images" folder.
	The location of the figure is controlled by the *src* parameter
	See Creation of .svg Images
	The code to insert inside of the document to represent an image follows:
	
	`<figure>`
	`<img src="images/image-name.svg" alt="figure-title">`
	
	`<figcaption>Figure Title</figcaption>`
	`</figure>`
	Note: Depending on the line thickness in figures, upon the SVG scaling factor and the browser zoom setting some lines may not be displayed when viewed from GitHub.This can be mitigated by increasing the browser zoom setting.
	To view how to use Markdown &HTML click here
		
		The overall architecture of the LwM2M Enabler
		
		The protocol stack of the LwM2M Enabler
			
			Figure: 4.-1 The overall architecture of the LwM2M Enabler
			 
			Figure: 4.-2 The protocol stack of the LwM2M Enabler

DO'S AND DON'TS

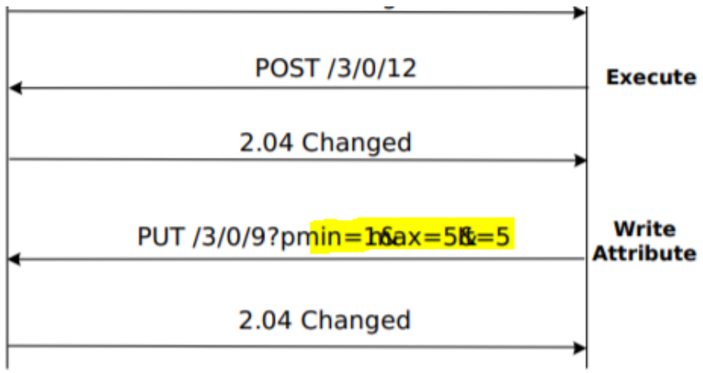
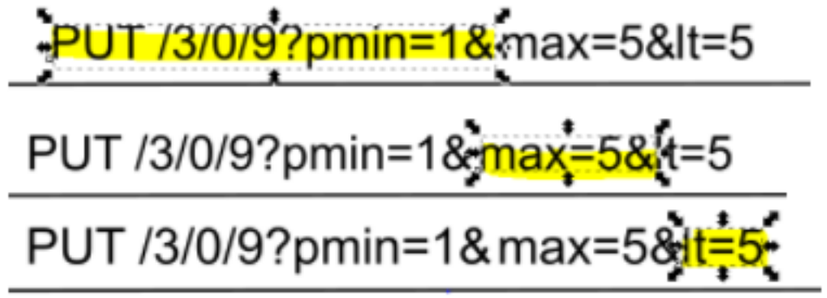
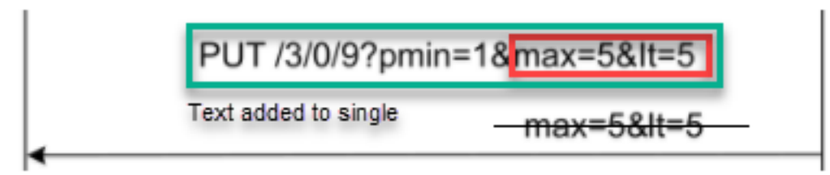
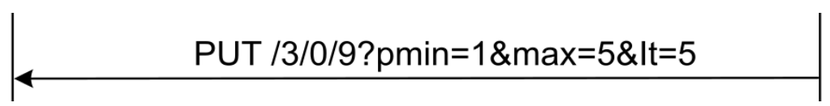
Do's
Use HTML constructor as listed here
Ensure contiguous text in a line is in a single text box and not multiple text boxes. If multiple text boxes are used then when the figures are converted to PDF the figures may appear incorrect.
Do ensure lines have a sufficient (non zero) width e.g. 0.4 mm (dependent on the figure scaling).
Don'ts
DON'T use markdown constructors to insert a figure
DON'T use parameters to centre or define the width and height of the figure
DON'T embed bitmaps in SVG figures

Click here for a full breakdown of conversion Markdown to HTML/PDF

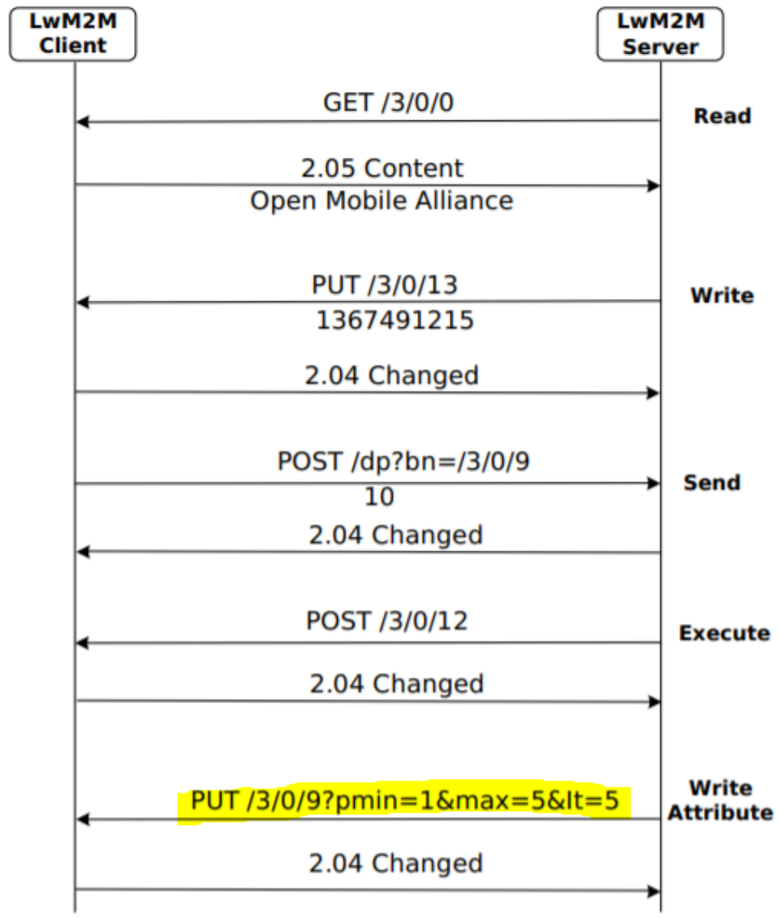
FAQ - Problem Solutions

FAQ	Image of problem	Solution	Figure Images

origin: SVG_Guidelines2.docx

How do I resolve overlapping/merging text in a figure when creating a PDF document?	 Figure: 6.2.5.-1 Example of Device Management & Service Enablement interface exchanges	The problem originates due to the text being broken down into different text boxes. Open up the image in Inkscape (Download software) Identify overlapping/merging text in the figure Fig 1 highlights that in this example there are 3 text boxes. 3. Simply use the first text box to insert all the required text into a single text box. (Fig 2) 4. Delete the additional text boxes once all the information has been added and place the text box into the correct position. (Fig 3) 5. Save the file and upload to the Correct GitHub repository.	 Fig 1  Fig 2  Fig 3

origin: SVG_Guidelines2.docx

		6. Publish a PDF doc to review changes. Fig 4 Illustrates the overlapping text issue has been resolved	 Fig 4

origin: SVG_Guidelines2.docx